

ABSTRACT

A method of performing encrypted WLAN communication is provided that comprises the steps of performing a connection set-up for the encrypted WLAN
5 communication and performing data frame encapsulation and/or decapsulation during the encrypted WLAN communication. The connection set-up is performed by executing software-implemented instructions, and the data frame encapsulation and/or decapsulation is performed by operating single-purpose hardware. In embodiments, corresponding single-purpose hardware devices,
10 integrated circuit chips, computer program products and computer systems are provided. The embodiments may provide an improved hardware/software architecture for 802.11i security enhancement.